ST-JX310L / JX3030

SERVICE MANUAL

ST-JX310L:
AEP Model
UK Model

ST-JX3030:
AEP Model

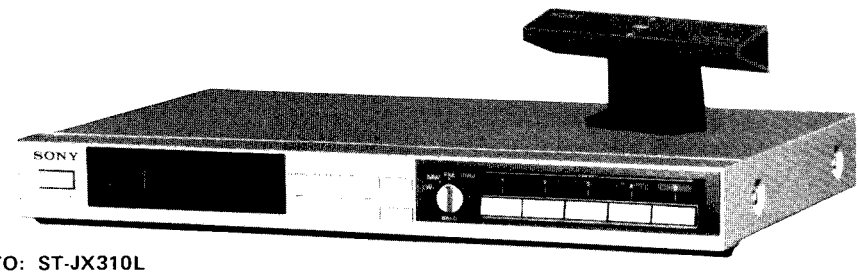


PHOTO: ST-JX310L

SPECIFICATIONS

FM tuner section

Tuning range 87.5 MHz – 108 MHz
Antenna terminals 300 ohms, balanced
75 ohms, unbalanced
Intermediate frequency
10.7 MHz

	(at 40 kHz deviation)
Sensitivity	at 46 dB quieting 17.3 dBf, 4μV (mono) 38.3 dBf, 45μV (stereo)
Usable sensitivity	10.3 dBf, 1.8μV (IHF) 1.7μV (S/N = 26 dB)
Signal-to-noise ratio	76 dB (mono) 71 dB (stereo)
Harmonic distortion at 1 kHz	0.15% (mono) 0.3% (stereo)
IM distortion	0.15% (mono) 0.3% (stereo)
Separation at 1 kHz	45 dB
Frequency response	40 Hz – 12.5 kHz ±0.5 dB 30 Hz – 15 kHz $^{+0.5}_{-2.0}$ dB
Selectivity	70 dB at 300 kHz

Capture ratio 1.0 dB
AM suppression ratio 54 dB
Image response ratio 50 dB
IF response ratio 90 dB
Spurious response ratio
70 dB
RF intermodulation 60 dB (IHF)
Muting threshold Approx. 25 dBf, 10μV
Output level/impedance
at 75 kHz deviation 550 mV, 3.3 k ohms

AM (MW/LW) tuner section

		MW	LW
Tuning range		531 – 1,602 kHz (9 kHz step)	153 kHz – 344 kHz
Antenna		LAYOUT-FREE AM antenna	
		external antenna terminal	
Intermediate frequency		450 kHz	
Usable sensitivity	LAYOUT-FREE AM antenna	300μV/m (at 999 kHz)	700μV/m (at 230 kHz)
	external antenna	30μV (at 999 kHz)	200μV (at 230 kHz)
Signal-to-noise ratio		54 dB (50 mV/m)	
Harmonic distortion		0.3% (at 50 mV/m, 400 Hz)	
Selectivity		35 dB (9 kHz)	35 dB (9 kHz)

– Continued on page 2 –

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

FM STEREO/FM-AM TUNER

SONY®

MICROFILM

AUD

General

System	PLL quartz-locked digital synthesizer system FM stereo, FM/AM super-heterodyne tuner
Power requirements	AEP model: 220 V ac (or 240 V ac adjustable by authorized Sony personnel), 50/60 Hz UK model: 240 V ac (or 220 V ac adjustable by authorized Sony personnel), 50/60 Hz
Power consumption	8 watts
Dimensions	Approx. 430 x 55 x 270 mm (w/h/d) ($17\frac{1}{8}$ x $2\frac{1}{4}$ x $10\frac{3}{4}$ inches) including projecting parts and controls
Weight	2.9 kg (6 lbs 6 oz)

FEATURES

The quartz-locked digital frequency-synthesizer system allows accurate and stable tuning that is not affected by temperature variations or long period usage.

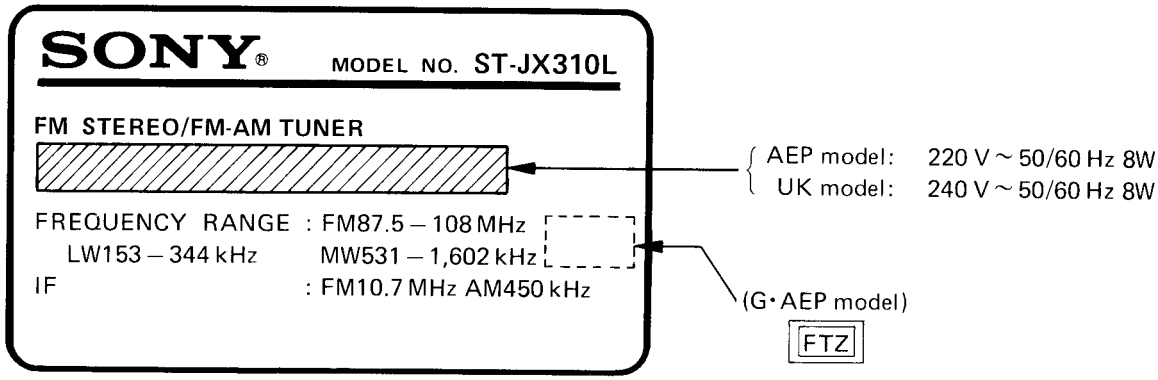
Quick and accurate station selection is possible with an electronic digital readout on the frequency display window.
Two methods of tuning are available:
Manual tuning, in which each band can be scanned either rapidly or step-by-step.
Memory preset tuning, in which the frequency of up to 15 stations can be stored in the memory. In this mode, you can tune in your favorite station by pushing its station button.
An FM muting circuit is incorporated to eliminate any interstation noise.

The memory contents are retained by a lithium manganese battery incorporated in the tuner when the power is turned off. This battery also allows the last station tuned in to be held in the memory.

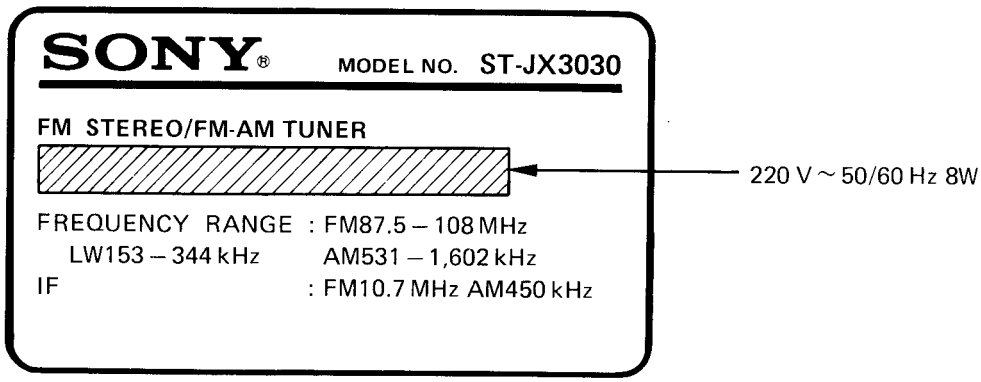
MODEL IDENTIFICATION

–Specification Label–

ST-JX310L model


SONY®
MODEL NO. ST-JX310L
FM STEREO/FM-AM TUNER
FREQUENCY RANGE : FM87.5 – 108 MHz
LW153 – 344 kHz MW531 – 1,602 kHz
IF : FM10.7 MHz AM450 kHz
AEP model: 220 V ~ 50/60 Hz 8W
UK model: 240 V ~ 50/60 Hz 8W
(G·AEP model)
FTZ

ST-JX3030 model

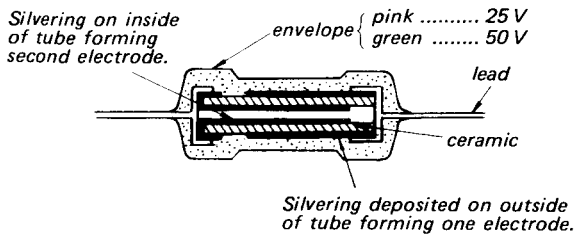

SONY®
MODEL NO. ST-JX3030
FM STEREO/FM-AM TUNER
FREQUENCY RANGE : FM87.5 – 108 MHz
LW153 – 344 kHz AM531 – 1,602 kHz
IF : FM10.7 MHz AM450 kHz
220 V ~ 50/60 Hz 8W

• THE CERAMIC CAPACITORS

This set uses tube-type ceramic capacitors whose shape is identical with the carbon resistors. Be careful not to use resistors instead of capacitors in repairing.

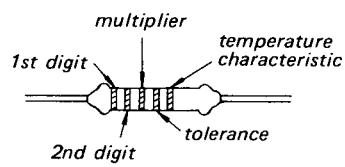
Disc-type ceramic capacitors can be used for replacing those originally used in the set.

Two kinds of drilled holes are provided in some patterns for mounting the tube-type and disc-type ceramic capacitors. Use appropriate holes where applicable.

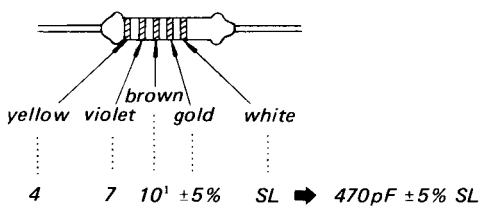

Silvering on inside of tube forming second electrode.
envelope
pink ..... 25 V
green ..... 50 V
lead
ceramic
Silvering deposited on outside of tube forming one electrode.

COLOR CODE (in pF)

Color	1st or 2nd Digit	Multiplier	Tolerance	Temperature characteristic
brown	1	10^1		Y
red	2	10^2		D
orange	3	10^3		
yellow	4	10^4		RH
green	5			
blue	6			
violet	7			UJ
gray	8		±30%	X
white	9			SL
black	0	10^0	±20%	CH
gold		10^{-1}	± 5%	V
silver		10^{-2}	±10%	B



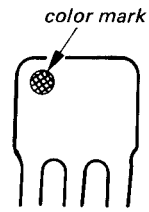
Example:



• IF OFFSET ADJUSTMENT:

Circuit Connections Depending on the Ceramic Filter (CF201–203)

This set employs three types of ceramic filter (CF201–203) which have different center frequency. Therefore FM IF offset adjustment by diode connection is necessary to match the center frequency of the ceramic filter used with FM intermediate frequency.

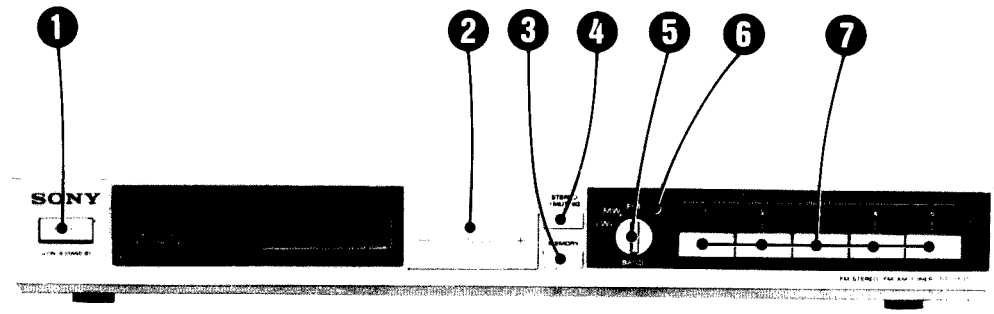


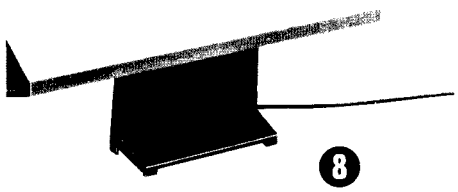
Ceramic filter		Diode connection		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	D611	D612	
Red	10.70	×	×	10.70
White	10.75	○	×	10.75
Black	10.65	×	○	10.65

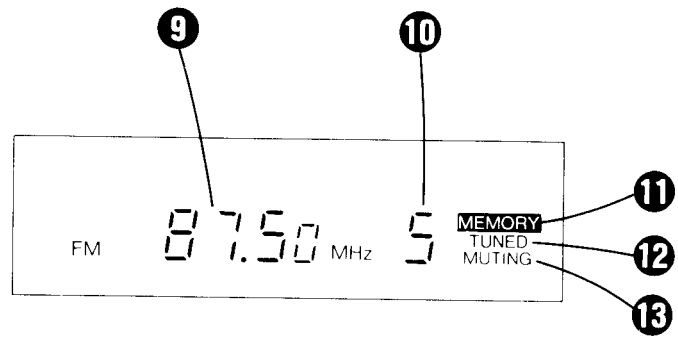
○: connected
×: not connected

* CF201, 202 and 203 should be used the ceramic filters of same center frequency.
Part Numbers of each color are shown below.
Red 1-527-968-11
White 1-527-968-51
Black 1-527-968-41

LOCATION AND FUNCTION OF CONTROLS







❶ POWER switch
Depress to turn on the power. To turn the power off, press the switch again.

❷ TUNING button
Press either side of this button to change the frequency. Press the left side (−) to go to a lower frequency and the right side (+) to go to a higher. To change the frequency continuously until the desired frequency is received, keep the button pressed. The frequency figures will change rapidly. To change the frequency slowly, successively press and immediately release the button.

❸ MEMORY switch
Press to operate memory circuit. The MEMORY indicator will appear in the band/frequency-display window for a few seconds indicating that the memory circuit is standing by.

❹ STEREO/MUTING switch
This switch serves the dual purpose of a mode and FM muting switch. Normally keep this switch engaged (the MUTING indicator illuminates) to eliminate FM interstation noise while tuning from station to station. The tuner operates in stereo mode for stereo sound sources and will be automatically switched to mono mode for monaural sound sources.

❺ BAND selector
Selects the desired band: The selected band will be indicated in the band/frequency-display window.

❻ STEREO indicator
This indicator will light when an FM stereo program of sufficient signal strength is tuned in with the STEREO/MUTING switch engaged.

❼ Station PRESET buttons
To call up a memorized station, press the appropriate button.

❽ LAYOUT FREE AM external ferrite-bar antenna
For AM (MW/LW) reception, always connect this antenna to the AM ANTENNA terminal on the rear panel. Position the LAYOUT-FREE AM antenna for best reception.

Band/frequency display window

❾ Band/frequency-display
Permits reading the received frequency at a glance from the figures.

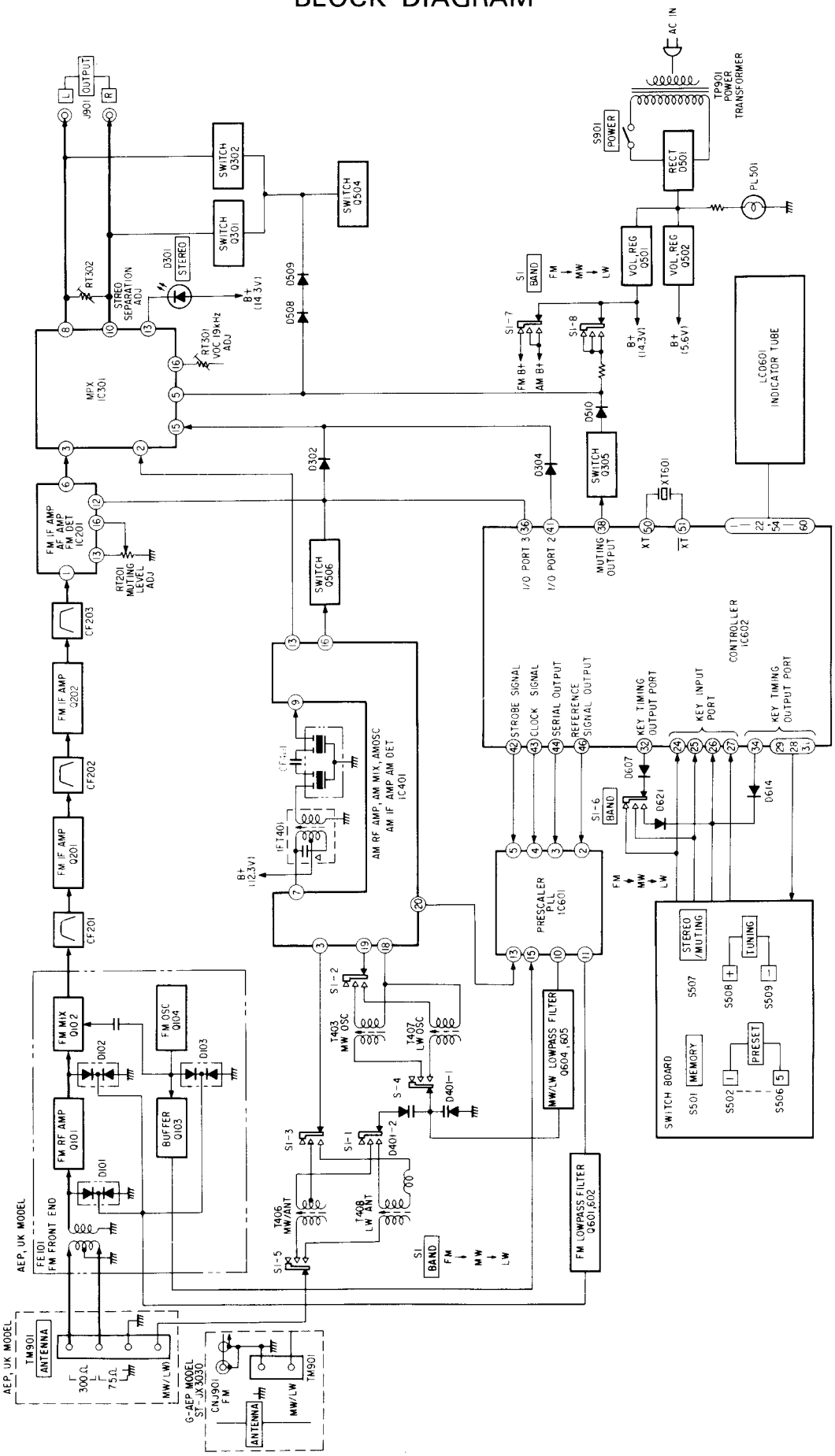
❿ Station preset button indicator
When the station PRESET button is pressed, a figure from 1 to 5 corresponding to the pressed button will appear.

⓫ MEMORY indicator
When the MEMORY switch is pressed, "MEMORY" will appear for a few seconds indicating that the memory circuit is standing by.

⓬ TUNED indicator
This indicator illuminates when a sufficiently strong signal is tuned in.

⓭ MUTING indicator
This indicator illuminates when the STEREO/MUTING switch is engaged in FM reception.

SECTION 1
BLOCK DIAGRAM

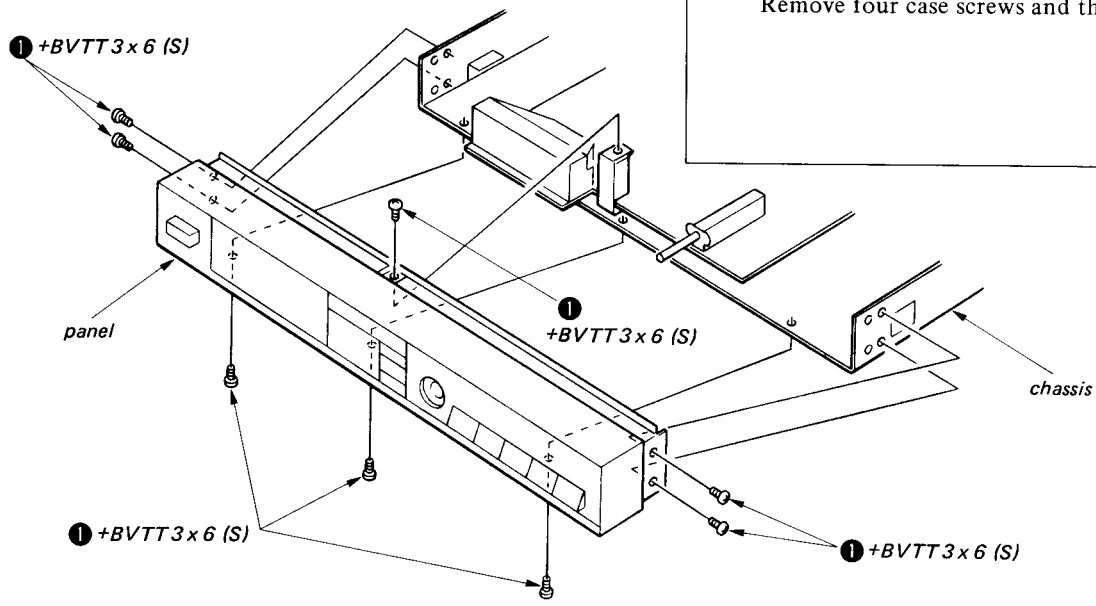


- FM FRONT END CIRCUIT for G-AEP model and ST-JX3030 model is omitted.

SECTION 2
DISASSEMBLY

• Follow the disassembly procedure in the numerical order given.

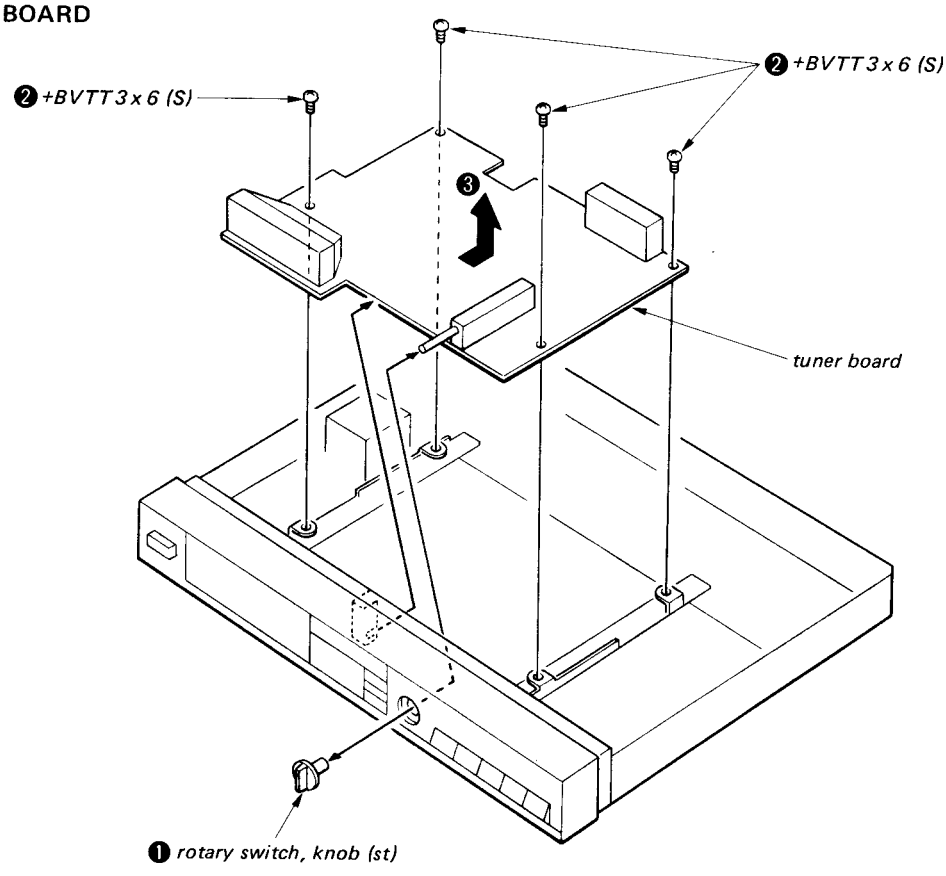
PANEL



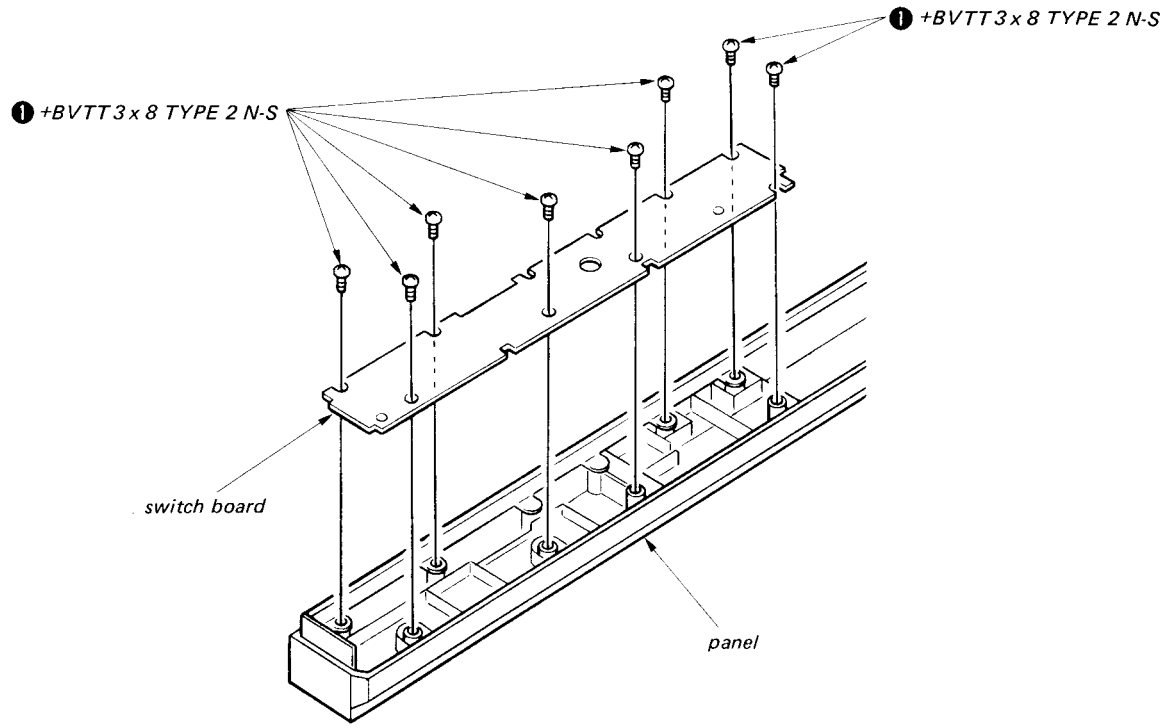
CASE

Remove four case screws and the case.

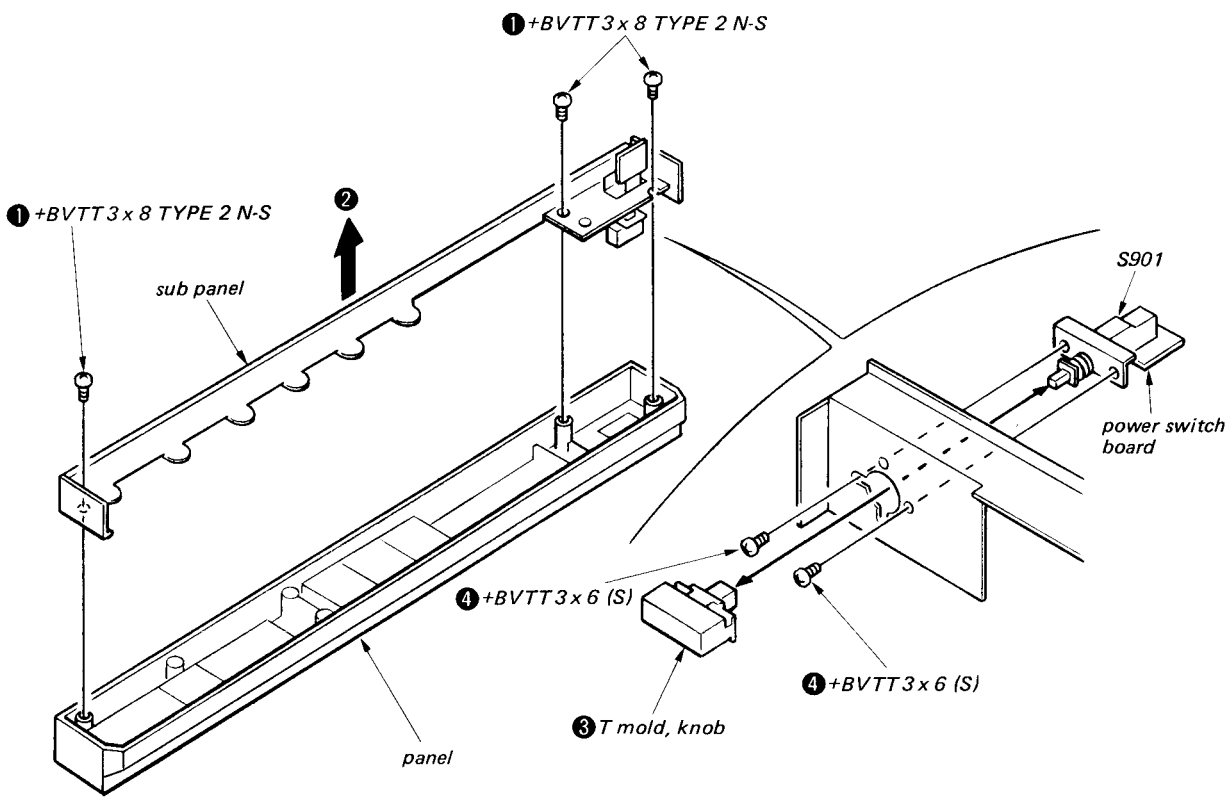
TUNER BOARD



SWITCH BOARD



SUB PANEL, POWER SWITCH BOARD

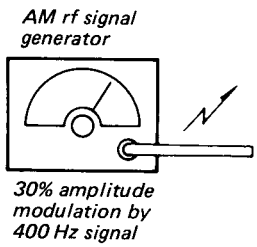


SECTION 3
ADJUSTMENTS

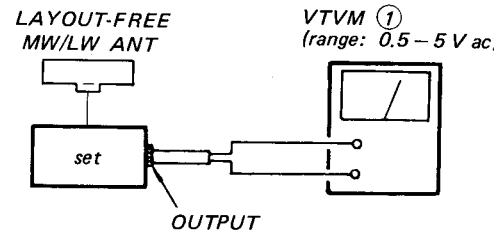
MW/LW SECTION

Setting:

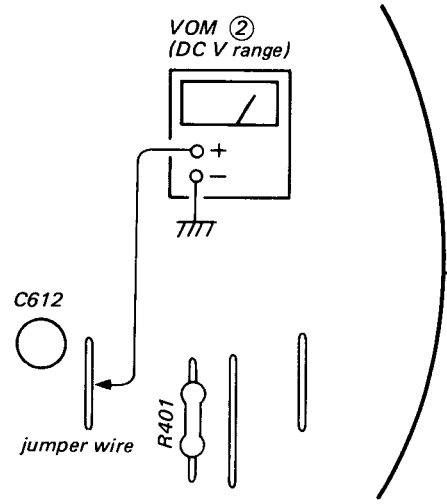
Band Selector: MW/LW



Note:
Tracking adjustment of LW section should be made earlier than that of MW section.



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.



MW/LW FREQUENCY COVERAGE ADJUSTMENT

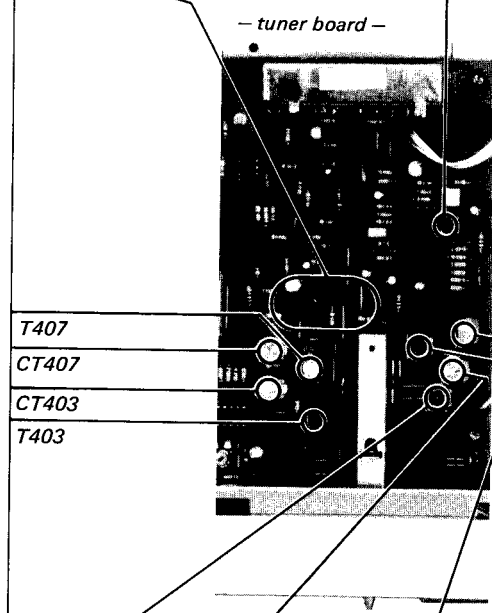
- **MW**

Frequency Display	1,602 kHz	531 kHz
Voltage at VOM ②	9.0±0.2 V	1.1±0.1 V
Adjustment Parts	CT403	T403

- **LW**

Frequency Display	344 kHz	153 kHz
Voltage at VOM ②	9.0±0.2V	1.0±0.1V
Adjustment Parts	CT407	T407

AM IF ADJUSTMENT	
Adjust for a maximum reading on VTVM ①.	
450 kHz	IFT401



T406	CT406
603 kHz	1,404 kHz
Adjust for a maximum reading on VTVM ①.	
MW TRACKING ADJUSTMENT	

T408	CT408
170kHz	310kHz
Adjust for a maximum reading on VTVM ①.	
LW TRACKING ADJUSTMENT	

FM SECTION

The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.

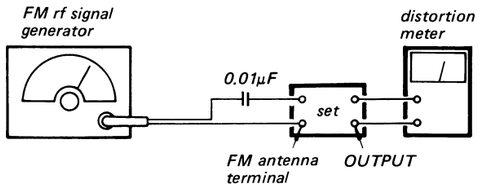
FM Discriminator Alignment

Note: Repeat the secondary-side and primary-side adjustments several times.
For step3, adjust after removing VOM.

Setting:

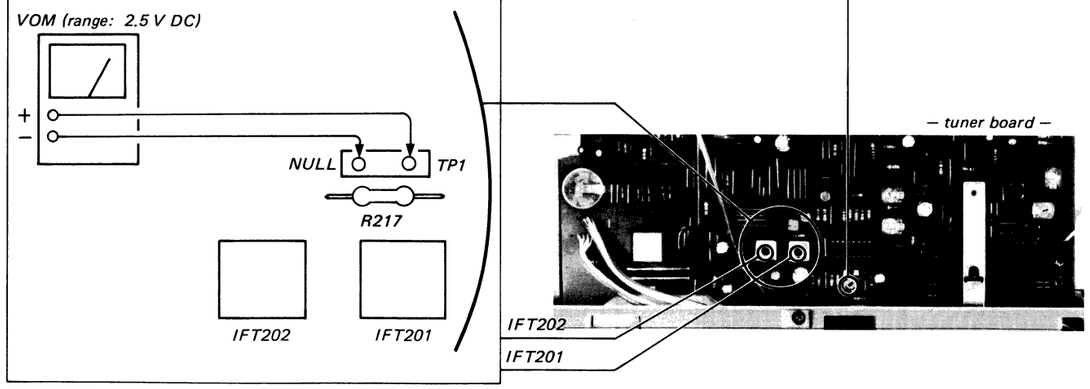
STEREO/MUTING switch: OFF

Procedure:



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation: 1 kHz, 40 kHz deviation (100%)

1. Tune the set to 98 MHz.
2. Connect a VOM to NULL test point (TP1) and adjust the primary-side core IFT201 for 0 V DC reading on the VOM.
3. Adjust the secondary-side core IFT202 for a minimum reading on the distortion meter.

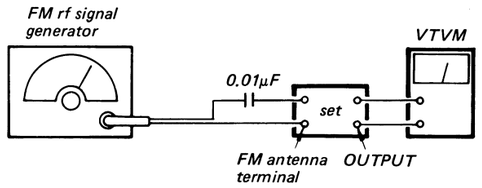


FM Muting Level Adjustment

Setting:

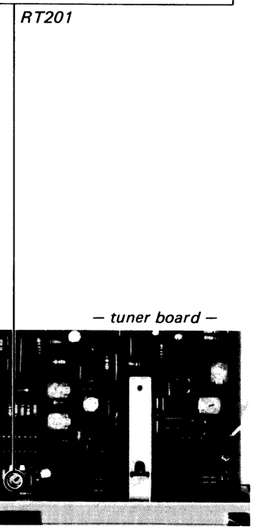
STEREO/MUTING switch: ON

Procedure:



Carrier frequency: 98 MHz
Modulation: 1 kHz, 40 kHz deviation (100%)
Output level: 17.8 µV (25 dB)

1. Tune the set to 98 MHz by pressing the MANUAL TUNING switches.
2. Adjust RT201 for a 0 V reading on the VTVM.



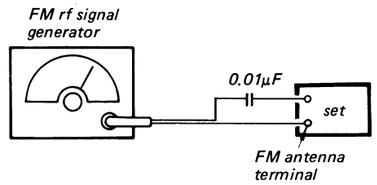
VCO Adjustment

Setting:

STEREO/MUTING Switch: OFF

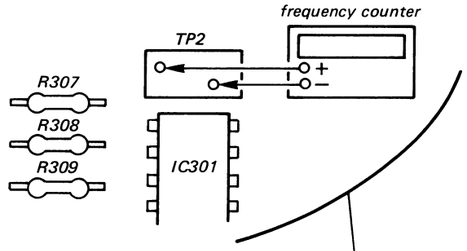
A) Regular Method

Procedure:



Carrier frequency: 98 MHz
Modulation: no modulation
Output level: 1 mV (60 dB)

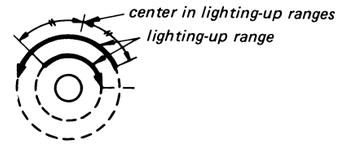
1. Tune the set to 98 MHz.
2. Adjust RT301 for 19 kHz ± 50 Hz on the counter.

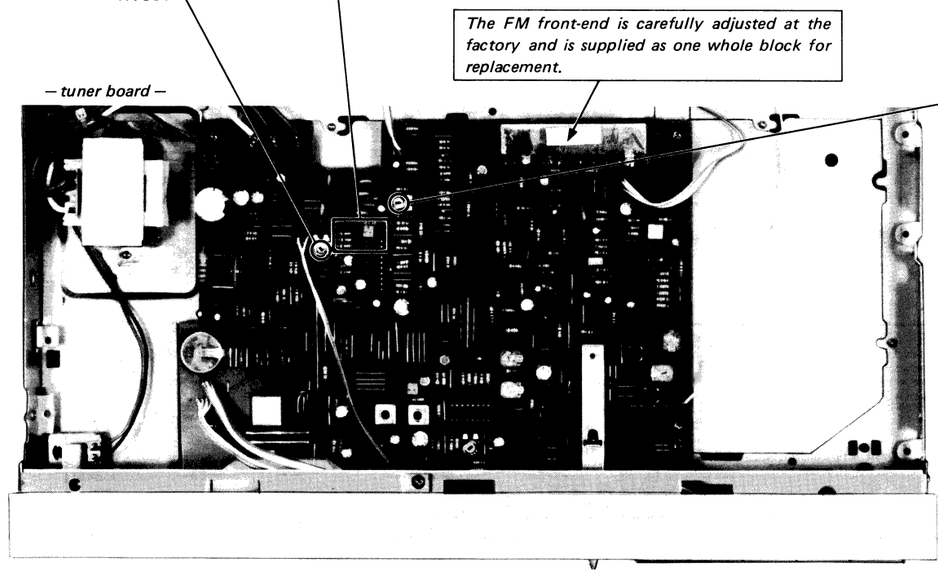


B) Simple Method

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RT301 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RT301 at the center of the lighting-up range of both turns as shown below.




The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.
RT302
– tuner board –

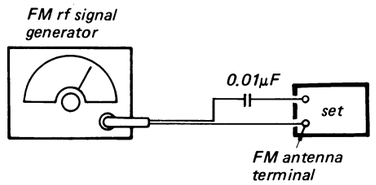
VCO Adjustment

Setting:

STEREO/MUTING Switch: OFF

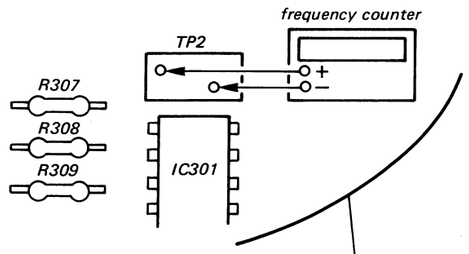
A) Regular Method

Procedure:



Carrier frequency: 98 MHz
Modulation: no modulation
Output level: 1 mV (60 dB)

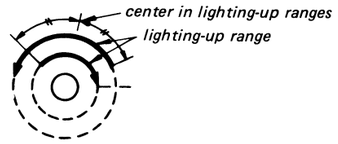
1. Tune the set to 98 MHz.
2. Adjust RT301 for 19 kHz ± 50 Hz on the counter.



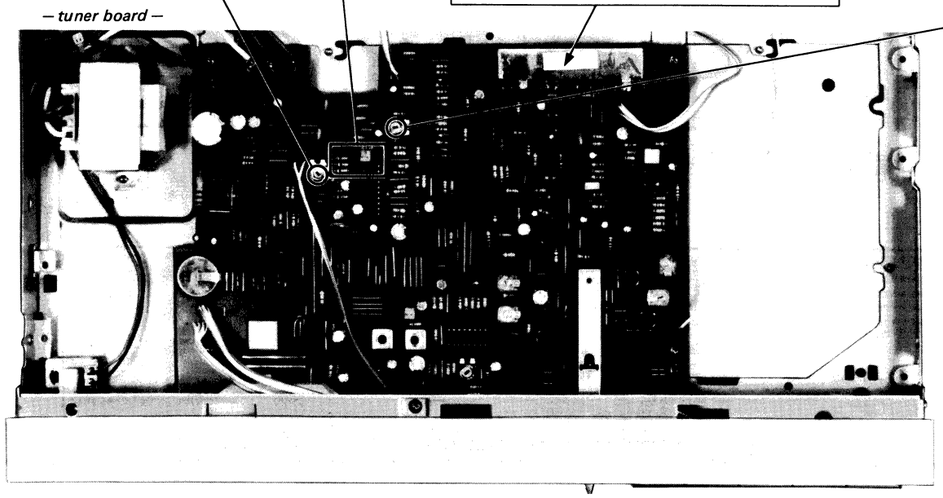
B) Simple Method

Procedure:

1. Tune the set to the FM stereo broadcasting signal.
2. Turn RT301 clockwise or counterclockwise and memorize the lighting-up range of the stereo lamp.
3. Secure RT301 at the center of the lighting-up range of both turns as shown below.



The FM front-end is carefully adjusted at the factory and is supplied as one whole block for replacement.

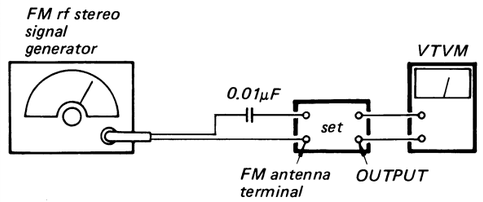


FM Stereo Separation Adjustment

Setting:

STEREO/MUTING switch: ON

Procedure:



Carrier frequency: 98 MHz
Output level: 1 mV (60 dB)
Modulation:

Audio (1 kHz): 16.25 kHz deviation (40%)
Pilot (19 kHz): 7.5 kHz deviation (19%)
Sub-channel: 16.25 kHz deviation (40%)

FM stereo signal generator output channel	VTVM connection	VTVM reading (dB)
L-CH	L-CH	Ⓐ
R-CH	L-CH	Ⓑ Adjust RT302 for minimum reading.
R-CH	R-CH	Ⓒ
L-CH	R-CH	Ⓓ Adjust RT302 for minimum reading.

L-CH Stereo separation: Ⓐ – Ⓑ
R-CH Stereo separation: Ⓒ – Ⓓ

The separations of both channels should be equal.

Note on MOUNTING DIAGRAM:

- ○— : parts extracted from the component side.
- ●— : parts extracted from the conductor side.
- ■ : part mounted on the conductor side.
- : indicates side identified with part number.
- ▲ : nonflammable resistor.
- : B + pattern
- : signal path
- : L-CH signal path
- : R-CH signal path

Note on SCHEMATIC DIAGRAM:

- All capacitors are in μF unless otherwise noted. pF: μμF 50WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in ohms, 1/4 W unless otherwise noted. kΩ : 1000 Ω, MΩ : 1000 kΩ
- : nonflammable resistor.
- △ : internal component.
- : panel designation.
- : adjustment for repair.
- : B+ bus.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 kΩ/V).
  no mark: FM
  ( ) : MW
  (( )) : LW
  < > : MUTE ON
- Voltage variations may be noted due to normal production tolerances.
- Switches

Ref. No.	Switch	Position
S1	BAND	FM
S501	MEMORY	OFF
S502	PRESET 1	OFF
S503	PRESET 2	OFF
S504	PRESET 3	OFF
S505	PRESET 4	OFF
S506	PRESET 5	OFF
S507	STEREO/MUTING	OFF
S508	TUNING +	OFF
S509	TUNING -	OFF
S901	POWER SWITCH	OFF

- : signal path

Note: Voltages are measured with a VOM (50kΩ/V).

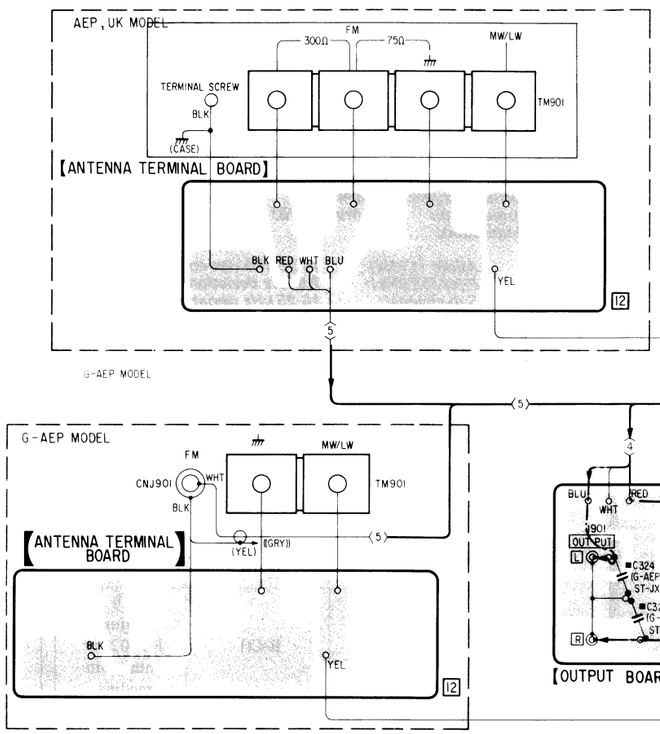
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

4-1. MOUNTING DIAGRAM

—Conductor Side—

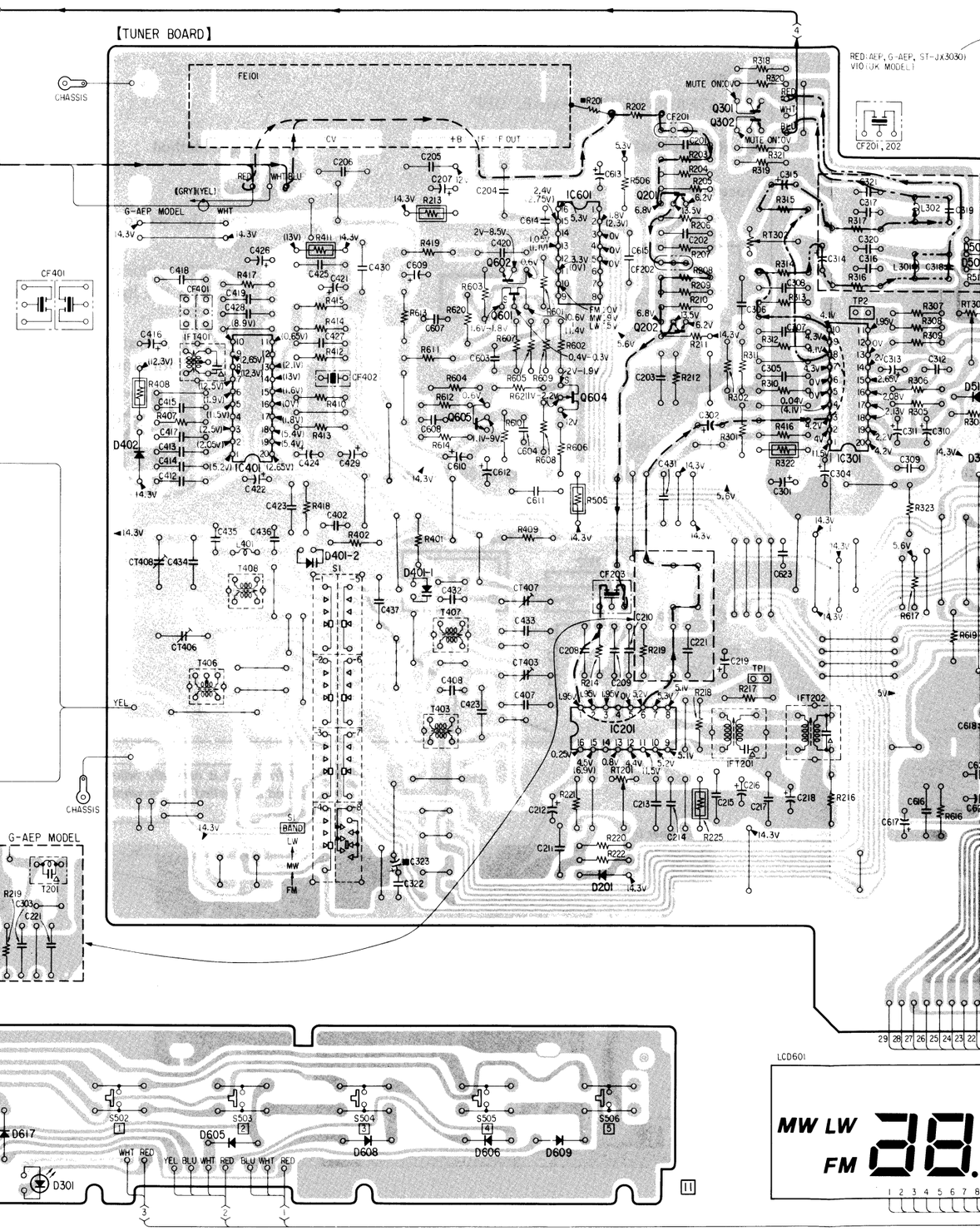
- See page 11 for note.
- See page 19 for the Semiconductor Lead Layouts.

Q IC	D
301 302	
201	501
IC601 504	509 505 508 504 502
602 601	
202	303
	506
604 510 501 503 IC401 IC301 605	510
502	402 304 302
	511 503 618 619
	401-2 607 401-1
	614 621 612 611 610
	615
IC602 IC201	
	201
	603 604 617 605 608 606 609 301
Q IC	D



Ceramic filter		Diode connection		FM intermediate frequency (MHz)
Color mark	Center frequency (MHz)	D611	D612	
Red	10.70	×	×	10.70
White	10.75	○	×	10.75
Black	10.65	×	○	10.65

○: connected
×: not connected



8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23

A B C D E F G H I J

【TUNER BOARD】

【POWER SWITCH BOARD】

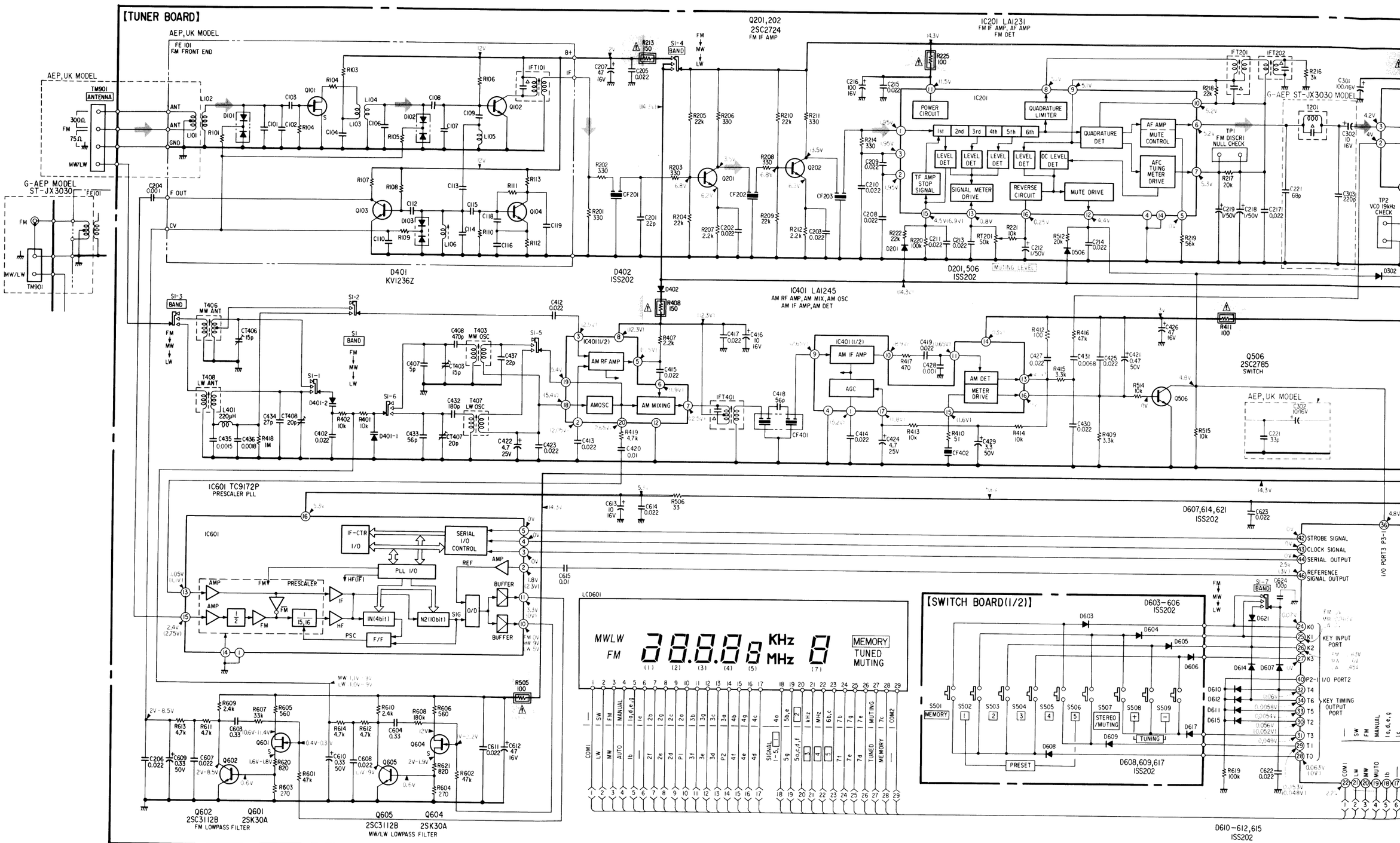
【OUTPUT BOARD】

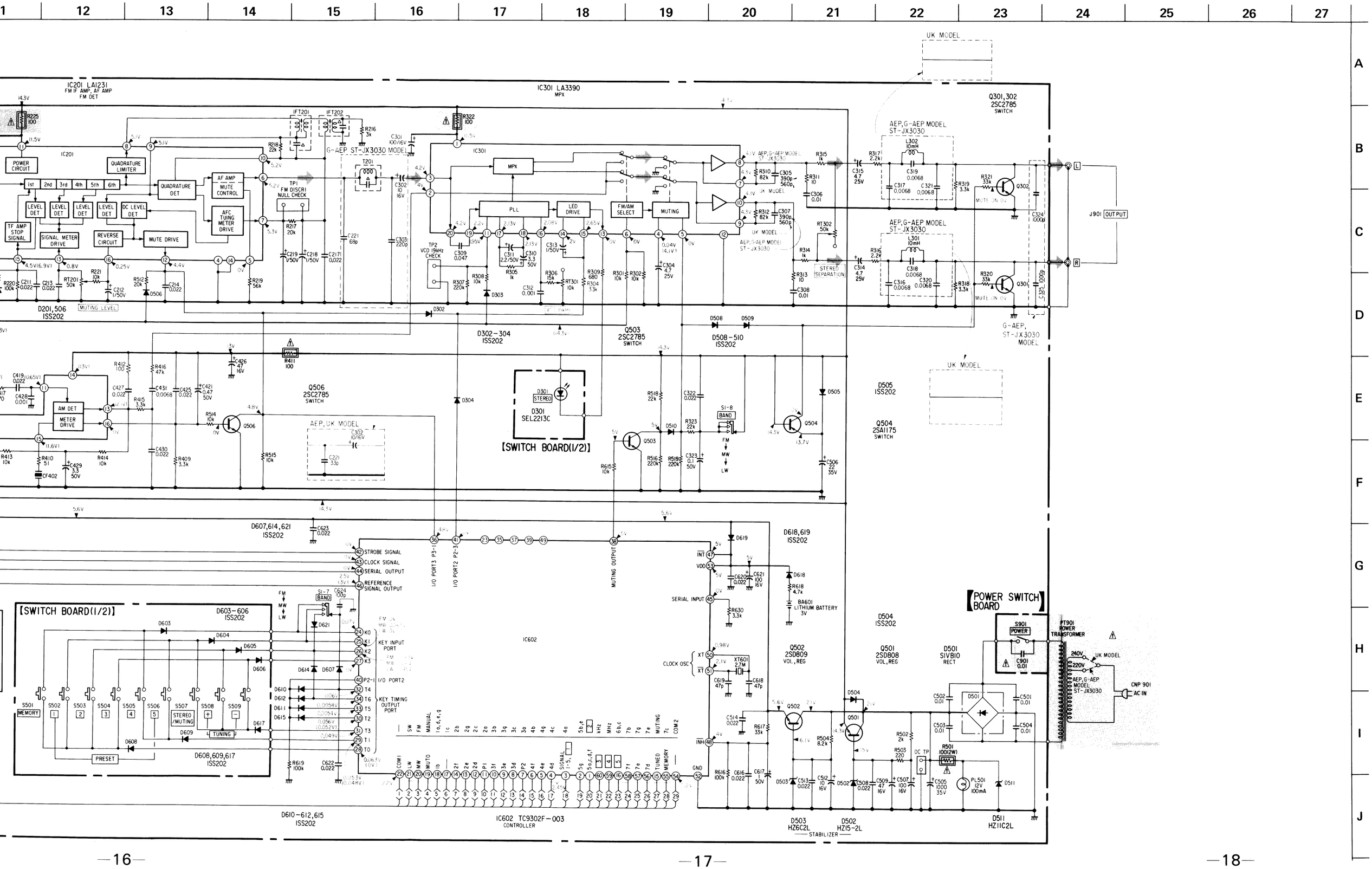
connection		FM intermediate frequency (MHz)
	D612	
	X	10.70
	X	10.75
	○	10.65

nected
connected

4-2. SCHEMATIC DIAGRAM

- See page 11 for note.
- FM FRONT END CIRCUT for G-AEP model and ST-JX3030 model is omitted.



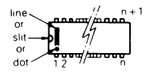

IC201 LA1231
FM IF AMP, AF AMP
FM DET
IC301 LA3390
MPX
Q301,302
2SC2785
SWITCH
UK MODEL
AEP,G-AEP MODEL
ST-JX3030
G-AEP, ST-JX3030 MODEL
POWER CIRCUIT
QUADRATURE LIMITER
QUADRATURE DET
AF AMP
MUTE CONTROL
AFC TUNING METER DRIVE
TP1
FM DISCRI NULL CHECK
MPX
PLL
LED DRIVE
FM/AM SELECT
MUTING
TF AMP STOP SIGNAL
SIGNAL METER DRIVE
REVERSE CIRCUIT
MUTE DRIVE
TP2
VCO 19kHz CHECK
STEREO SEPARATION
J901 OUTPUT
D201,506
ISS202
MUTING LEVEL
D302
D302-304
ISS202
Q503
2SC2785
SWITCH
D508 D509
D508-510
ISS202
Q506
2SC2785
SWITCH
AM DET
METER DRIVE
AEP,UK MODEL
D301
SEL2213C
[SWITCH BOARD(1/2)]
D304
D505
ISS202
Q504
2SA1175
SWITCH
S1-8
BAND
FM
MW
LW
D607,614,621
ISS202
D618,619
ISS202
STROBE SIGNAL
CLOCK SIGNAL
SERIAL OUTPUT
REFERENCE SIGNAL OUTPUT
I/O PORT3 P3-1
I/O PORT2 P2-3
MUTING OUTPUT
SERIAL INPUT
[SWITCH BOARD(1/2)]
D603-606
ISS202
KEY INPUT PORT
I/O PORT2
KEY TIMING OUTPUT PORT
IC602
IC602 TC9302F-003
CONTROLLER
CLOCK OSC
XT601
2.7M
Q502
2SD809
VOL.,REG
Q501
2SD808
VOL.,REG
D501
SIVB10
RECT
[POWER SWITCH BOARD]
S901 POWER
PT901 POWER TRANSFORMER
240V
220V
UK MODEL
AEP,G-AEP MODEL ST-JX3030
CNP 901 AC IN
BA601 LITHIUM BATTERY 3V
D503 HZ6C2L
D502 HZ15-2L
STABILIZER
D511 HZ11C2L
D610-612,615
ISS202
D608,609,617
ISS202
PRESET
TUNING
MEMORY
STEREO /MUTING

SECTION 5

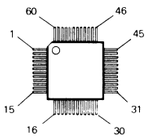
EXPLODED VIEWS AND PARTS LIST

• Semiconductor Lead Layouts

LA1231
LA1245
LA3390
TC9172P

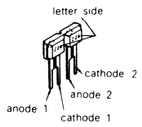


TC9302F-003

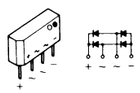


1SS202-1
HZ15-2L
HZ6C2L
HZ11C2L

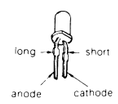
KV1236Z



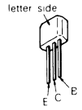
S1VB20



SEL2213C



2SA1175
2SC2785



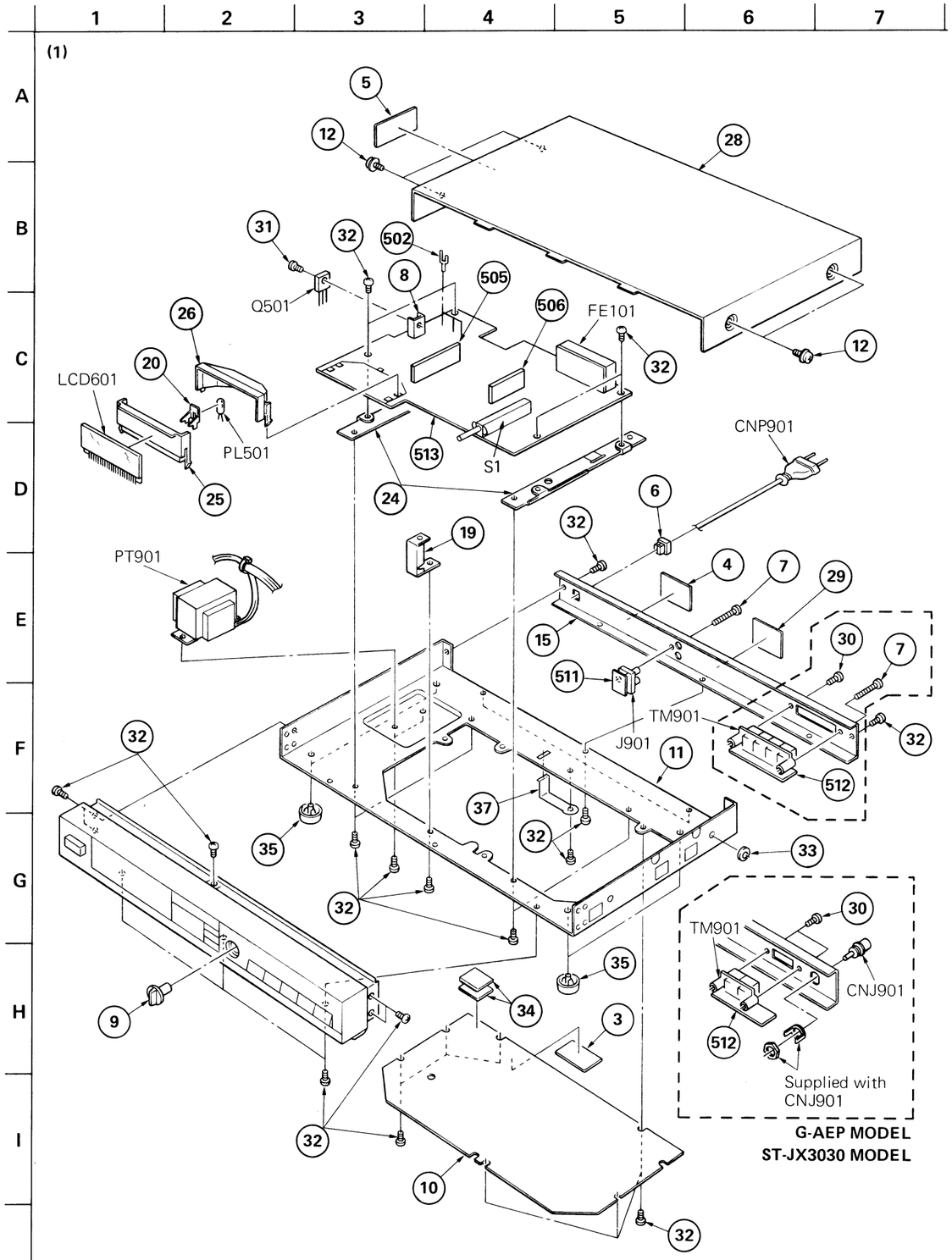
2SC2724

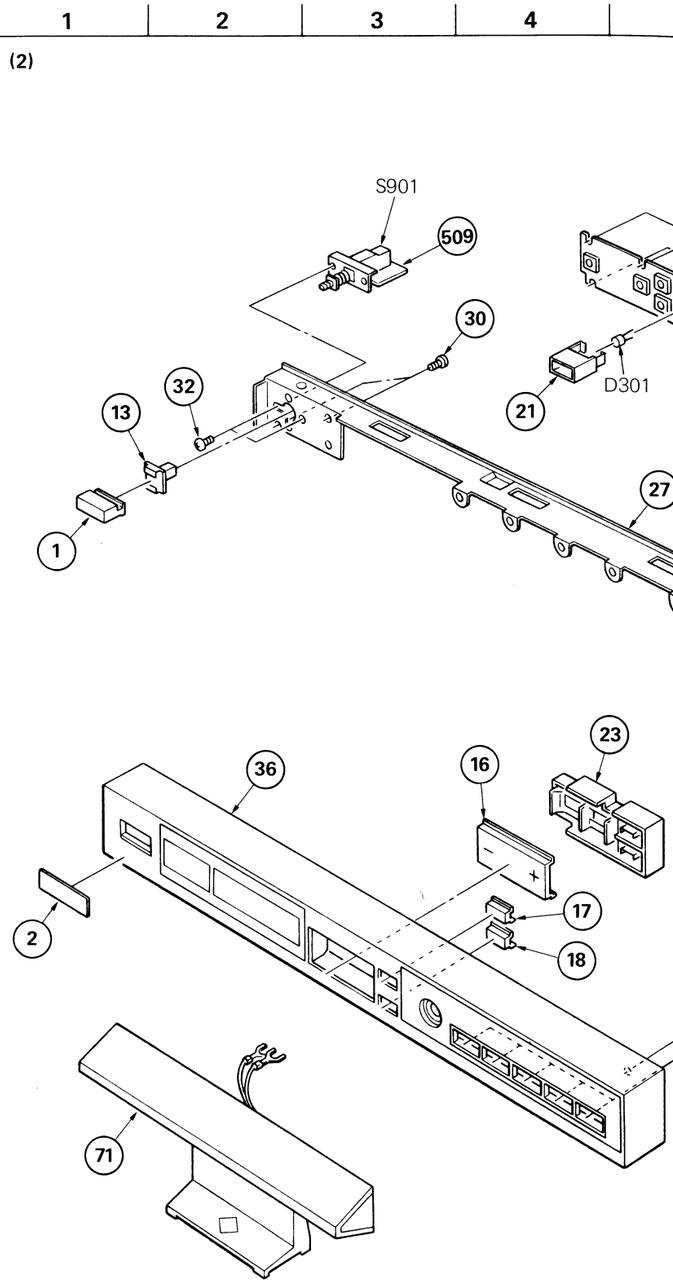
2SC3112-B

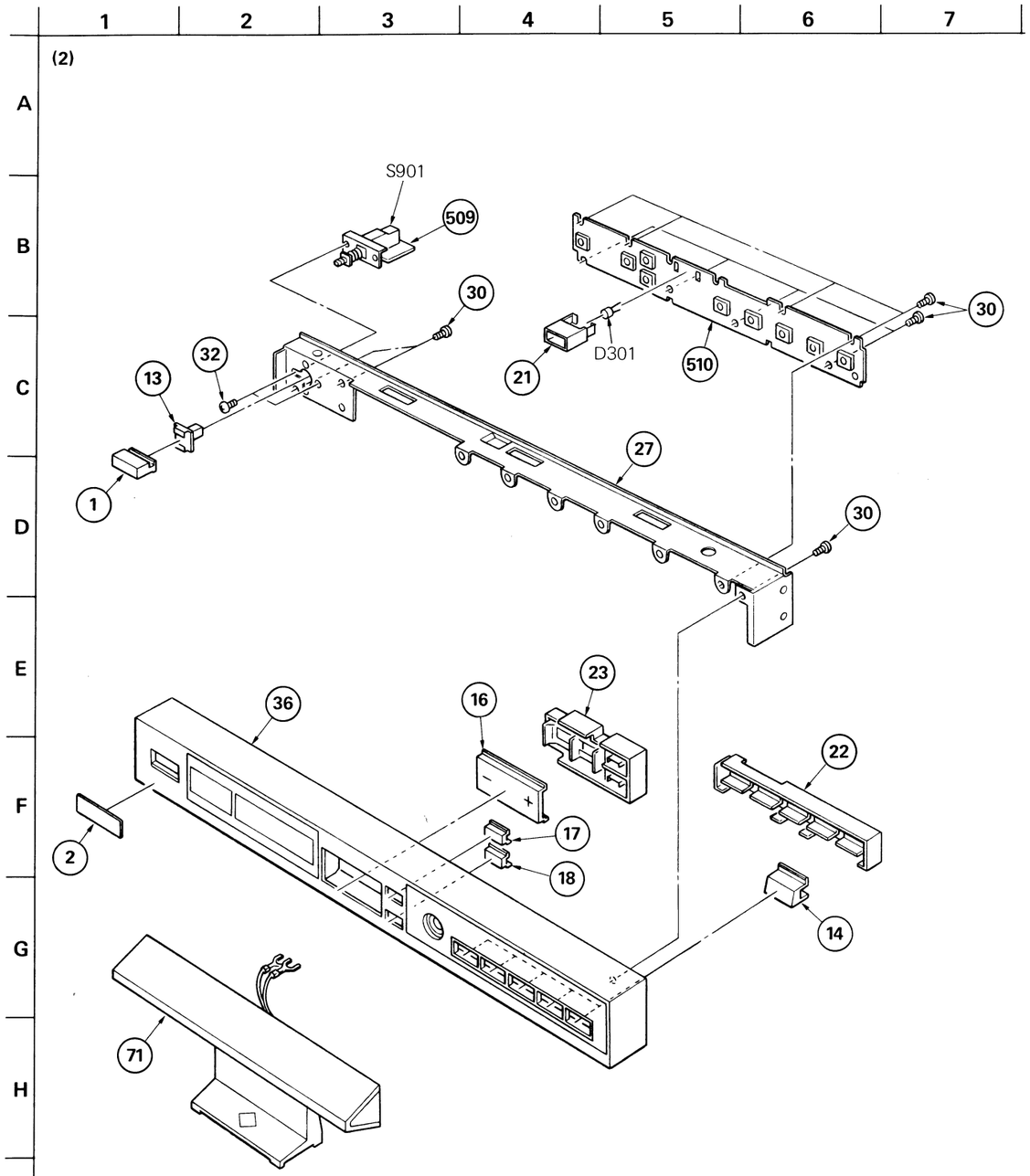
2SD809

2SD880

2SK30A-GR3







GENERAL SECTION

No.	Part No.	Description
1	3-318-911-01	(SILVER).....KNOB (POWER.L), T MOLD
1	3-318-911-11	(BLACK).....KNOB (POWER.L), T MOLD
1	3-318-911-21	(ST-JX3030)...KNOB (POWER.L), T MOLD
2 ♦	3-701-690-00	(UK)...LABEL (MADE IN JAPAN)
3	3-703-081-21	(UK)...LABEL (SIDE), SUB CAUTION
4	3-703-396-00	(UK)...LABEL, CAUTION
5 ♦	3-703-845-01	(UK)...LABEL (N)(U/C) MAIN CAUTION
6	3-703-244-00	BUSHING, CORD
7	3-703-473-00	SCREW, TERMINAL
8 ♦	4-875-327-01	HEAT SINK
9	4-884-847-11	(BLACK).....KNOB (ST), ROTARY SWITCH
9	4-884-847-31	(SILVER).....KNOB (ST), ROTARY SWITCH
9	4-884-847-41	(ST-JX3030)...KNOB (ST), ROTARY SWITCH
10 ♦	4-889-215-00	PLATE, BOTTOM
11 ♦	4-889-219-01	CHASSIS
12	4-889-321-01	(SILVER).....SCREW
12	4-889-321-11	(BLACK,ST-JX3030)...SCREW
13 ♦	4-902-831-01	JOINT (G), KNOB
14	4-904-419-01	(SILVER).....KNOB (PUSH C), T
14	4-904-419-11	(BLACK).....KNOB (PUSH C), T
14	4-904-419-21	(ST-JX3030)...KNOB (PUSH C), T
15 ♦	4-904-501-21	(AEP,UK).....PLATE, JACK
15 ♦	4-904-502-01	(G-AEP,ST-JX3030)...PLATE, JACK
16	4-904-503-01	(SILVER).....KNOB (PUSH A), T
16	4-904-503-11	(BLACK).....KNOB (PUSH A), T
16	4-904-503-21	(ST-JX3030)...KNOB (PUSH A), T
17	4-904-504-01	(SILVER).....KNOB (PUSH B), T
17	4-904-504-21	(BLACK).....KNOB (PUSH B), T
17	4-904-504-31	(ST-JX3030)...KNOB (PUSH B), T
18	4-904-504-11	KNOB (PUSH B), T
19 ♦	4-904-506-01	BRACKET (A)
20 ♦	4-904-507-01	BLIND, LAMP
21 ♦	4-904-509-01	HOLDER (B), LED
22 ♦	4-904-510-01	HINGE (B)
23 ♦	4-904-512-01	HINGE (A)
24 ♦	4-904-513-01	FRAME
25 ♦	4-904-514-01	ILLUMINATOR
26 ♦	4-904-515-01	HOUSE, LAMP
27 ♦	4-904-516-01	PANEL, SUB
28	4-904-518-01	(SILVER).....CASE
28	4-904-518-11	(BLACK).....CASE
28	4-904-518-21	(ST-JX3030)...CASE
29 ♦	4-904-522-01	(UK).....LABEL, MODEL NUMBER
29 ♦	4-904-523-01	(AEP,G-AEP)...LABEL, MODEL NUMBER
29 ♦	4-904-525-01	(ST-JX3030)...LABEL, MODEL NUMBER

GENERAL SECTION

No.	Part No.	Description
30	7-685-646-11	SCREW +BVTP 3X8 TYPE2 N-S
31	7-685-752-04	SCREW +BVTT 3X8 (S)
32	7-685-871-01	SCREW +BVTT 3X6 (S)
33	4-830-092-00	WASHER, FIBER
34	9-911-863-XX	INSULATOR
35	X-3701-069-0	FOOT ASSY, M.F
36	X-4904-503-1	(SILVER)....PANEL ASSY
36	X-4904-504-1	(BLACK).....PANEL ASSY
36	X-4904-506-1	(ST-JX3030)...PANEL ASSY
37	4-887-320-01	PLATE (A), GROUND

ACCESSORY & PACKING MATERIAL

No.	Part No.	Description
71	1-402-082-11	ANTENNA, FERRITE-ROD (LW/MW/SW)
72	1-501-224-00	(AEP,UK)...ANTENNA, FEEDER
73	1-551-734-11	CORD, CONNECTION
74	3-701-630-00	BAG, POLYETHYLENE
75	3-773-742-11	(AEP).....MANUAL, INSTRUCTION
75	3-773-742-41	(AEP).....MANUAL, INSTRUCTION
75	3-773-742-51	(UK).....MANUAL, INSTRUCTION
75	3-773-742-61	(G-AEP).....MANUAL, INSTRUCTION
75	3-773-742-71	(ST-JX3030)...MANUAL, INSTRUCTION
76	4-876-352-00	SHEET, PROTECTION
77	4-904-526-01	CUSHION, LOWER
78	4-904-527-01	CUSHION (LEFT), UPPER
79	4-904-528-01	CUSHION (RIGHT), UPPER
80	4-904-530-01	(ST-JX310L)....INDIVIDUAL CARTON
80	4-904-534-01	(ST-JX3030)....INDIVIDUAL CARTON
81	4-904-531-01	HOLDER, ANTENNA

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- Items marked " ♦ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- Due to standardization, parts with part numbers (△-△△△-△△△-XX or △-△△△△-△△△-X) may be different from those used in the set.
- If there are two or more same circuits in a set such as a stereophonic machine, only typical circuit parts may be indicated and capacitors and resistors in other same circuits may be omitted.

CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···,
UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description
501	.....	
502	♦;1-535-115-00	TERMINAL
503	1-535-416-00	TERMINAL
504	♦;1-560-060-00	PIN, CONNECTOR 2P
505	1-560-242-11	BUS BAR 3P
506	1-560-242-61	BUS BAR 2P
507	♦;1-562-249-00	SOCKET, CONNECTOR 4P
508	♦;1-562-327-00	SOCKET, CONNECTOR 3P
509	♦;1-612-706-11	PC BOARD, POWER SWITCH
510	♦;1-612-708-11	PC BOARD, SWITCH
511	♦;1-612-709-11	PC BOARD, OUTPUT
512	♦;1-612-711-11	PC BOARD, ANTENNA TERMINAL
513	♦;1-612-710-11	PC BOARD, TUNER
513	♦;A-4351-396-A	(UK).....MOUNTED PCB, TUNER
513	♦;A-4351-397-A	(AEP).....MOUNTED PCB, TUNER
513	♦;A-4351-398-A	(G-AEP,ST-JX3030)...MOUNTED PCB, TUNER
BA601	1-528-120-00	BATTERY, LITHIUM (CR-2025)
C201	1-161-263-00	CERAMIC 22PF 5% 50V
C202	1-161-494-00	CERAMIC 0.022MF 30% 25V
C203	1-161-494-00	CERAMIC 0.022MF 30% 25V
C204	1-161-323-00	CERAMIC 0.001MF 10% 50V
C205	1-161-494-00	CERAMIC 0.022MF 30% 25V
C206	1-161-494-00	CERAMIC 0.022MF 30% 25V
C207	1-123-332-00	ELECT 47MF 20% 16V
C208	1-161-494-00	CERAMIC 0.022MF 30% 25V
C209	1-161-494-00	CERAMIC 0.022MF 30% 25V
C210	1-161-494-00	CERAMIC 0.022MF 30% 25V
C211	1-161-494-00	CERAMIC 0.022MF 30% 25V
C212	1-123-380-00	ELECT 1MF 20% 50V
C213	1-161-494-00	CERAMIC 0.022MF 30% 25V
C214	1-161-494-00	CERAMIC 0.022MF 30% 25V
C215	1-161-494-00	CERAMIC 0.022MF 30% 25V
C216	1-123-333-00	ELECT 100MF 20% 16V
C217	1-161-494-00	CERAMIC 0.022MF 30% 25V
C218	1-123-380-00	ELECT 1MF 20% 50V
C219	1-123-380-00	ELECT 1MF 20% 50V
C221	1-161-265-00	(AEP,UK)...CERAMIC 33PF 5% 50V
C221	1-161-269-00	(G-AEP,ST-JX3030)...CERAMIC 68PF 5% 50V
C301	1-123-333-00	ELECT 100MF 20% 16V
C302	1-123-356-00	ELECT 10MF 20% 16V
C303	1-161-315-00	(G-AEP,ST-JX3030)..CERAMIC 220PF 10% 50V
C304	1-123-369-00	ELECT 4.7MF 20% 25V
C305	1-161-318-00	(AEP,G-AEP,ST-JX3030)...CERAMIC 390PF 10% 50V
C305	1-161-320-00	(UK)...CERAMIC 560PF 10% 50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description
C306	1-161-330-00	CERAMIC 0.01MF 30% 25V
C307	1-161-318-00	(AEP,G-AEP,ST-JX3030)...CERAMIC 390PF 10% 50V
C307	1-161-320-00	(UK)...CERAMIC 560PF 10% 50V
C308	1-161-330-00	CERAMIC 0.01MF 30% 25V
C309	1-101-006-00	CERAMIC 0.047MF 50V
C310	1-123-382-00	ELECT 3.3MF 20% 50V
C311	1-123-381-00	ELECT 2.2MF 20% 50V
C312	1-104-077-00	POLYSTYRENE 0.001MF 5% 50V
C313	1-123-380-00	ELECT 1MF 20% 50V
C314	1-123-369-00	ELECT 4.7MF 20% 25V
C315	1-123-369-00	ELECT 4.7MF 20% 25V
C316	1-108-575-00	(AEP,G-AEP,ST-JX3030)...MYLAR 0.0068MF 5% 50V
C317	1-108-575-00	(AEP,G-AEP,ST-JX3030)...MYLAR 0.0068MF 5% 50V
C318	1-108-575-00	(AEP,G-AEP,ST-JX3030)...MYLAR 0.0068MF 5% 50V
C319	1-108-575-00	(AEP,G-AEP,ST-JX3030)...MYLAR 0.0068MF 5% 50V
C320	1-108-575-00	(AEP,G-AEP,ST-JX3030)...MYLAR 0.0068MF 5% 50V
C321	1-108-575-00	(AEP,G-AEP,ST-JX3030)...MYLAR 0.0068MF 5% 50V
C322	1-101-005-00	CERAMIC 0.022MF 50V
C323	1-123-607-00	ELECT 0.1MF 20% 50V
C324	1-161-323-00	(G-AEP,ST-JX3030)...CERAMIC 0.001MF 10% 50V
C325	1-161-323-00	(G-AEP,ST-JX3030)...CERAMIC 0.001MF 10% 50V
C402	1-101-005-00	CERAMIC 0.022MF 50V
C407	1-102-236-00	CERAMIC 5PF 10% 50V
C408	1-104-069-00	POLYSTYRENE 470PF 5% 50V
C412	1-161-494-00	CERAMIC 0.022MF 30% 25V
C413	1-161-494-00	CERAMIC 0.022MF 30% 25V
C414	1-161-494-00	CERAMIC 0.022MF 30% 25V
C415	1-161-494-00	CERAMIC 0.022MF 30% 25V
C416	1-123-356-00	ELECT 10MF 20% 16V
C417	1-161-494-00	CERAMIC 0.022MF 30% 25V
C418	1-161-268-00	CERAMIC 56PF 5% 50V
C419	1-161-494-00	CERAMIC 0.022MF 30% 25V
C420	1-161-330-00	CERAMIC 0.01MF 30% 25V
C421	1-123-379-00	ELECT 0.47MF 20% 50V
C422	1-123-369-00	ELECT 4.7MF 20% 25V
C423	1-161-494-00	CERAMIC 0.022MF 30% 25V
C424	1-123-369-00	ELECT 4.7MF 20% 25V
C425	1-161-494-00	CERAMIC 0.022MF 30% 25V
C426	1-123-332-00	ELECT 47MF 20% 16V
C427	1-161-494-00	CERAMIC 0.022MF 30% 25V
C428	1-161-323-00	CERAMIC 0.001MF 10% 50V

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In each case, U : μ, for example:
UA···: μA···, UPA···: μPA···,
UPC···: μPC, UPD···: μPD···

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C429	1-123-382-00	ELECT	3.3MF	20%	50V
C430	1-161-494-00	CERAMIC	0.022MF	30%	25V
C431	1-161-329-00	CERAMIC	0.0068MF	30%	25V
C432	1-103-707-00	POLYSTYRENE	180PF	5%	50V
C433	1-102-730-00	CERAMIC	56PF	5%	50V
C434	1-161-264-00	CERAMIC	27PF	5%	50V
C435	1-161-053-00	CERAMIC	0.0015MF	30%	50V
C436	1-102-120-00	CERAMIC	0.0018MF	10%	50V
C437	1-161-263-00	CERAMIC	22PF	5%	50V
C501	1-101-004-00	CERAMIC	0.01MF		50V
C502	1-101-004-00	CERAMIC	0.01MF		50V
C503	1-101-004-00	CERAMIC	0.01MF		50V
C504	1-101-004-00	CERAMIC	0.01MF		50V
C505	1-123-349-00	ELECT	1000MF	20%	35V
C506	1-123-357-00	ELECT	22MF	20%	35V
C507	1-123-333-00	ELECT	100MF	20%	16V
C508	1-161-494-00	CERAMIC	0.022MF	30%	25V
C509	1-123-332-00	ELECT	47MF	20%	16V
C512	1-123-356-00	ELECT	10MF	20%	16V
C513	1-161-494-00	CERAMIC	0.022MF	30%	25V
C514	1-161-494-00	CERAMIC	0.022MF	30%	25V
C603	1-130-638-00	FILM	0.33MF	5%	50V
C604	1-130-638-00	FILM	0.33MF	5%	50V
C607	1-101-005-00	CERAMIC	0.022MF		50V
C608	1-101-005-00	CERAMIC	0.022MF		50V
C609	1-123-609-00	ELECT	0.33MF	20%	50V
C610	1-123-609-00	ELECT	0.33MF	20%	50V
C611	1-161-494-00	CERAMIC	0.022MF	30%	25V
C612	1-123-332-00	ELECT	47MF	20%	16V
C613	1-123-356-00	ELECT	10MF	20%	16V
C614	1-101-005-00	CERAMIC	0.022MF		50V
C615	1-161-330-00	CERAMIC	0.01MF	30%	25V
C616	1-161-494-00	CERAMIC	0.022MF	30%	25V
C617	1-123-380-00	ELECT	1MF	20%	50V
C618	1-102-852-00	CERAMIC	47PF	5%	50V
C619	1-102-852-00	CERAMIC	47PF	5%	50V
C620	1-101-005-00	CERAMIC	0.022MF		50V
C621	1-101-005-00	ELECT	100MF	20%	16V
C622	1-161-494-00	CERAMIC	0.022MF	30%	25V
C623	1-101-005-00	CERAMIC	0.022MF		50V
C624	1-102-973-00	CERAMIC	100PF	5%	50V
C901	⚠1-101-004-00	CERAMIC	0.01MF		50V
CF201	1-527-968-11	(RED)....FILTER, CERAMIC			
CF202	1-527-968-41	(BLACK)..FILTER, CERAMIC			
CF203	1-527-968-51	(WHITE)..FILTER, CERAMIC			
CF401	1-527-937-00	FILTER, CERAMIC			
CF402	1-527-981-00	FILTER, CERAMIC			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
CT403	1-141-180-00	CAP, TRIMMER 15P
CT406	1-141-180-00	CAP, TRIMMER 15P
CT407	1-141-171-00	CAP, TRIMMER 20P
CT408	1-141-171-00	CAP, TRIMMER 20P
CNJ901	1-561-919-00	(G-AEP,ST-JX3030)...SOCKET, CONNECTOR
⚠CNP901	1-551-427-11	(AEP,G-AEP,ST-JX3030)... CORD, POWER, EULO PLUG
⚠CNP901	1-556-560-00	(UK)....CORD, POWER
D201	8-719-107-94	DIODE 1SS202-1
D301	8-719-300-82	DIODE SEL2213C
D302	8-719-107-94	DIODE 1SS202-1
D303	8-719-107-94	DIODE 1SS202-1
D304	8-719-107-94	DIODE 1SS202-1
D401	8-719-902-79	DIODE KV1236Z
D402	8-719-107-94	DIODE 1SS202-1
D501	8-719-511-20	DIODE S1VB20
D502	8-719-910-52	DIODE HZ15-2L
D503	8-719-910-68	DIODE HZ6C2L
D504	8-719-107-94	DIODE 1SS202-1
D505	8-719-107-94	DIODE 1SS202-1
D506	8-719-107-94	DIODE 1SS202-1
D508	8-719-107-94	DIODE 1SS202-1
D509	8-719-107-94	DIODE 1SS202-1
D510	8-719-107-94	DIODE 1SS202-1
D511	8-719-910-18	DIODE HZ11C2L
D603	8-719-107-94	DIODE 1SS202-1
D604	8-719-107-94	DIODE 1SS202-1
D605	8-719-107-94	DIODE 1SS202-1
D606	8-719-107-94	DIODE 1SS202-1
D607	8-719-107-94	DIODE 1SS202-1
D608	8-719-107-94	DIODE 1SS202-1
D609	8-719-107-94	DIODE 1SS202-1
D610	8-719-107-94	DIODE 1SS202-1
D611	8-719-107-94	DIODE 1SS202-1
D612	8-719-107-94	DIODE 1SS202-1
D614	8-719-107-94	DIODE 1SS202-1
D615	8-719-107-94	DIODE 1SS202-1
D617	8-719-107-94	DIODE 1SS202-1
D618	8-719-107-94	DIODE 1SS202-1
D619	8-719-107-94	DIODE 1SS202-1
D621	8-719-107-94	DIODE 1SS202-1
FE101	A-4344-037-A	(AEP,UK)....FM FRONT END
FE101	A-4344-040-A	(G-AEP,ST-JX3030).....FM FRONT END
IC201	8-759-812-31	IC LA1231
IC301	8-759-833-90	IC LA3390
IC401	8-759-812-45	IC LA1245

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CAPACITORS:

- All capacitors are in μF. Common capacitors are omitted. Refer to the following lists for their part numbers. MF:μF, PF:μμF.

COILS

- MMH : mH, UH : μH

SEMICONDUCTORS

In each case, U : μ, for example:
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ELECTRICAL PARTS

Ref.No.	Part No.	Description
IC601	8-759-202-63	IC TC9172P
IC602	8-759-202-64	IC TC9302F-003
IFT201	1-404-400-00	TRANSFORMER, DISCRIMINATOR
IFT202	1-404-401-00	TRANSFORMER, DISCRIMINATOR
IFT401	1-404-535-11	COIL (WITH IFT)
J901	1-507-912-11	JACK, PIN 2P (OUTPUT)
L301	1-408-257-00	(AEP,G-AEP,ST-JX3030)... MICRO INDUCTOR 10MMH
L302	1-408-257-00	(AEP,G-AEP,ST-JX3030)... MICRO INDUCTOR 10MMH
L401	1-408-425-00	MICRO INDUCTOR 220UH
LCD601	1-806-874-11	INDICATOR, L-CRYSTAL LT5056
PL501	1-518-511-00	LAMP, PILOT
PT901 ⚠	1-447-846-11	TRANSFORMER, POWER
Q201	8-729-672-43	TRANSISTOR 2SC2724
Q202	8-729-672-43	TRANSISTOR 2SC2724
Q301	8-729-245-83	TRANSISTOR 2SC2458
Q302	8-729-245-83	TRANSISTOR 2SC2458
Q501	8-729-288-02	TRANSISTOR 2SD880
Q502	8-729-180-93	TRANSISTOR 2SD809
Q503	8-729-245-83	TRANSISTOR 2SC2458
Q504	8-729-201-52	TRANSISTOR 2SA1015
Q506	8-729-245-83	TRANSISTOR 2SC2458
Q601	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q602	8-729-201-84	TRANSISTOR 2SC3112-B
Q604	8-729-203-05	TRANSISTOR 2SK30A-GR3
Q605	8-729-201-84	TRANSISTOR 2SC3112-B
R201	1-247-119-00	CARBON 330 5% 1/4W
R202	1-247-119-00	CARBON 330 5% 1/4W
R203	1-247-119-00	CARBON 330 5% 1/4W
R204	1-247-163-00	CARBON 22K 5% 1/4W
R205	1-247-163-00	CARBON 22K 5% 1/4W
R206	1-247-119-00	CARBON 330 5% 1/4W
R207	1-247-139-00	CARBON 2.2K 5% 1/4W
R208	1-247-119-00	CARBON 330 5% 1/4W
R209	1-247-163-00	CARBON 22K 5% 1/4W
R210	1-247-163-00	CARBON 22K 5% 1/4W
R211	1-247-119-00	CARBON 330 5% 1/4W
R212	1-247-139-00	CARBON 2.2K 5% 1/4W
R213 ⚠	1-247-111-00	CARBON 150 5% 1/4W F
R214	1-247-119-00	CARBON 330 5% 1/4W
R216	1-247-142-00	CARBON 3K 5% 1/4W
R217	1-247-162-00	CARBON 20K 5% 1/4W
R218	1-247-163-00	CARBON 22K 5% 1/4W
R219	1-247-173-00	CARBON 56K 5% 1/4W

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R220	1-247-179-00	CARBON 100K 5% 1/4W
R221	1-247-155-00	CARBON 10K 5% 1/4W
R222	1-247-163-00	CARBON 22K 5% 1/4W
R225 ⚠	1-247-107-00	CARBON 100 5% 1/4W F
R301	1-247-155-00	CARBON 10K 5% 1/4W
R302	1-247-155-00	CARBON 10K 5% 1/4W
R304	1-247-167-00	CARBON 33K 5% 1/4W
R305	1-247-131-00	CARBON 1K 5% 1/4W
R306	1-247-159-00	CARBON 15K 5% 1/4W
R307	1-246-529-00	CARBON 220K 5% 1/4W
R308	1-247-155-00	CARBON 10K 5% 1/4W
R309	1-247-127-00	CARBON 680 5% 1/4W
R310	1-247-177-00	CARBON 82K 5% 1/4W
R311	1-247-083-00	CARBON 10 5% 1/4W
R312	1-247-177-00	CARBON 82K 5% 1/4W
R313	1-247-083-00	CARBON 10 5% 1/4W
R314	1-247-131-00	CARBON 1K 5% 1/4W
R315	1-247-131-00	CARBON 1K 5% 1/4W
R316	1-247-139-00	CARBON 2.2K 5% 1/4W
R317	1-247-139-00	CARBON 2.2K 5% 1/4W
R318	1-247-143-00	CARBON 3.3K 5% 1/4W
R319	1-247-143-00	CARBON 3.3K 5% 1/4W
R320	1-247-167-00	CARBON 33K 5% 1/4W
R321	1-247-167-00	CARBON 33K 5% 1/4W
R322 ⚠	1-247-107-00	CARBON 100 5% 1/4W F
R323	1-247-163-00	CARBON 22K 5% 1/4W
R401	1-247-155-00	CARBON 10K 5% 1/4W
R402	1-247-155-00	CARBON 10K 5% 1/4W
R407	1-247-139-00	CARBON 2.2K 5% 1/4W
R408 ⚠	1-247-111-00	CARBON 150 5% 1/4W F
R409	1-247-143-00	CARBON 3.3K 5% 1/4W
R410	1-247-100-00	CARBON 51 5% 1/4W
R411 ⚠	1-247-107-00	CARBON 100 5% 1/4W F
R412	1-247-107-00	CARBON 100 5% 1/4W
R413	1-247-155-00	CARBON 10K 5% 1/4W
R414	1-247-155-00	CARBON 10K 5% 1/4W
R415	1-247-143-00	CARBON 3.3K 5% 1/4W
R416	1-247-171-00	CARBON 47K 5% 1/4W
R417	1-247-123-00	CARBON 470 5% 1/4W
R418	1-246-545-00	CARBON 1M 5% 1/4W
R419	1-247-147-00	CARBON 4.7K 5% 1/4W
R501 ⚠	1-206-640-00	METAL OXIDE 100 5% 2W F
R502	1-247-138-00	CARBON 2K 5% 1/4W
R503	1-247-115-00	CARBON 220 5% 1/4W
R504	1-247-153-00	CARBON 8.2K 5% 1/4W

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SEMICONDUCTORS

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R505	⚠1-247-107-00	CARBON	100	5%	1/4W F
R506	1-247-095-00	CARBON	33	5%	1/4W
R512	1-247-162-00	CARBON	20K	5%	1/4W
R514	1-247-155-00	CARBON	10K	5%	1/4W
R515	1-247-155-00	CARBON	10K	5%	1/4W
R516	1-246-529-00	CARBON	220K	5%	1/4W
R518	1-247-163-00	CARBON	22K	5%	1/4W
R519	1-246-529-00	CARBON	220K	5%	1/4W
R601	1-247-171-00	CARBON	47K	5%	1/4W
R602	1-247-171-00	CARBON	47K	5%	1/4W
R603	1-247-117-00	CARBON	270	5%	1/4W
R604	1-247-117-00	CARBON	270	5%	1/4W
R605	1-247-125-00	CARBON	560	5%	1/4W
R606	1-247-125-00	CARBON	560	5%	1/4W
R607	1-247-167-00	CARBON	33K	5%	1/4W
R608	1-246-527-00	CARBON	180K	5%	1/4W
R609	1-247-140-00	CARBON	2.4K	5%	1/4W
R610	1-247-140-00	CARBON	2.4K	5%	1/4W
R611	1-247-147-00	CARBON	4.7K	5%	1/4W
R612	1-247-147-00	CARBON	4.7K	5%	1/4W
R613	1-247-147-00	CARBON	4.7K	5%	1/4W
R614	1-247-147-00	CARBON	4.7K	5%	1/4W
R615	1-247-155-00	CARBON	10K	5%	1/4W
R616	1-247-179-00	CARBON	100K	5%	1/4W
R617	1-247-167-00	CARBON	33K	5%	1/4W
R618	1-247-147-00	CARBON	4.7K	5%	1/4W
R619	1-247-179-00	CARBON	100K	5%	1/4W
R620	1-247-129-00	CARBON	820	5%	1/4W
R621	1-247-129-00	CARBON	820	5%	1/4W
R630	1-247-143-00	CARBON	3.3K	5%	1/4W
RT201	1-226-238-00	RES, ADJ, CARBON 50K			
RT301	1-228-505-00	RES, ADJ, METAL GLAZE 10K			
RT302	1-226-238-00	RES, ADJ, CARBON 50K			
S1	1-554-897-11	SWITCH, ROTARY SLIDE (BAND)			
S501	1-553-739-21	SWITCH, KEY BOARD (MEMORY)			
S502	1-553-739-21	SWITCH, KEY BOARD (PRESET 1)			
S503	1-553-739-21	SWITCH, KEY BOARD (PRESET 2)			
S504	1-553-739-21	SWITCH, KEY BOARD (PRESET 3)			
S505	1-553-739-21	SWITCH, KEY BOARD (PRESET 4)			
S506	1-553-739-21	SWITCH, KEY BOARD (PRESET 5)			
S507	1-553-739-21	SWITCH, KEY BOARD (STEREO/MUTING)			
S508	1-553-739-21	SWITCH, KEY BOARD (TUNING +)			
S509	1-553-739-21	SWITCH, KEY BOARD (TUNING -)			
S901	⚠1-554-881-11	SWITCH, PUSH (1 KEY)(POWER SWITCH)			

ELECTRICAL PARTS

Ref.No.	Part No.	Description
T201	1-235-126-00	(G-AEP,ST-JX3030)...ENCAPSULATED COMPONENT
T403	1-406-089-11	COIL (OSC)
T406	1-402-069-11	COIL (ANT)
T407	1-406-090-11	COIL (OSC)
T408	1-402-071-11	COIL (ANT)
TM901	1-536-707-00	(G-AEP,ST-JX3030)...TERMINAL BOARD, PUSH 2P
TM901	1-536-708-00	(AEP,UK)....TERMINAL BOARD, PUSH 4P
XT601	1-567-125-00	VIBRATOR, CRYSTAL

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